

# PATENT COOPERATION TREATY

REC'D 12 APR 2005

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From the:  
INTERNATIONAL SEARCHING AUTHORITY

**PCT**

To:

Baldwins  
PO Box 5999  
Wellesley Street  
Auckland  
NEW ZEALAND

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) 06 APR 2005

Applicant's or agent's file reference  
CC503866-142

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.

PCT/NZ2004/000324

International filing date (day/month/year)

16 December 2004

Priority date (day/month/year)

16 December 2003

International Patent Classification (IPC) or both national classification and IPC

Int. Cl. <sup>7</sup> G01R 11/00; G08C 19/00; H02J 13/00

Applicant

PULSE UTILITIES LIMITED et al

**1. This opinion contains indications relating to the following items:**

- |                                     |              |  |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the opinion   |
| <input type="checkbox"/>            | Box No. II   | Priority   |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability   |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention   |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited  |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application   |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application  |

**2. FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

**3. For further details, see notes to Form PCT/ISA/220.**

Name and mailing address of the IPEA/AU

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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/NZ2004/000324

Box No. I Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/NZ2004/000324

**Box No. V**      **Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims 1 - 20	YES
	Claims	NO
Inventive step (IS)	Claims 1 - 20	YES
	Claims	NO
Industrial applicability (IA)	Claims 1 - 20	YES
	Claims	NO

**2. Citations and explanations:**

Claims 1-20 are novel and involve inventive step because no individual citation or obvious combination of citations teach or suggest "a power line communication system including a plurality intelligent devices in communication with a power line and operable to monitor energy usage at a site and communicate usage data onto the power line, and a controller also in communication with the power line, wherein each intelligent device maintains a routing table identifying a first set of other intelligent devices downstream of it relative to the controller that it can communicate with directly and identifying a second set of other intelligent devices downstream of it relative to the controller that it can communicate with through with through one or more of the first set of other intelligent devices".

Claims 1-20 have industrial applicability because the claimed invention can be made or used in the field of power line communication and metering systems.

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